

A

**HyPhy Vision**

Tools

**summary**  
**model statistics**  
**tree**  
**w distribution**

## Branch-Site Unrestricted Statistical Test for Episodic Diversification results summary

INPUT DATA | ksr2.dat | 9 sequences | 949 sites

BUSTED found evidence (LRT, p-value<0.001 < .05) of gene-wide episodic diversifying selection in the selected foreground of your phylogeny. Therefore, there is evidence that at least one site on at least one foreground branch has experienced diversifying selection.

See [here](#) for more information about the BUSTED method.  
Please cite [PMID 25701167](#) if you use this result in a publication, presentation, or other scientific work.

B

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### Model fits

Model	log L	#. params	AIC <sub>c</sub>	Branch set	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>
Unconstrained model	-5319.7	34	10707.6	Test	0.02 (99%)	0.10 (7%)	118.0% (0%)
Constrained model	-5326.2	33	10718.6	Test	0.00 (11%)	0.00 (66%)	1.00 (31%)

This table reports a statistical summary of the models fit to the data. Here, Unconstrained model refers to the BUSTED alternative model for selection, and Constrained model refers to the BUSTED null model for selection.

### Model Test Statistics Per Site

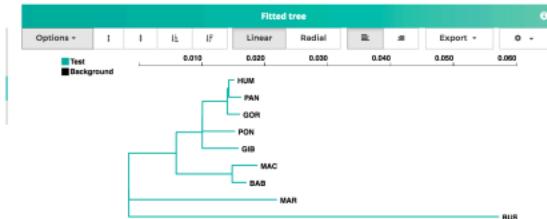
Site Index

Constrained Test Statistic: -infinity

Optimized Null Test Statistic: -infinity

Site Index	Unconstrained likelihood	Constrained likelihood	Optimized Null Likelihood	Constrained Statistic	Optimized Null Statistic
1	-3.82	-3.82	-3.82	-0.01	0
2	-5.29	-5.29	-5.29	-0.01	0
...	...	...	...	...	...

C



D

